CRONAX

TECHNOLOGY DESIGN & INNOVATION

India’s Leading Manufacturer Of

HIGH SPEED DOOR

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ABOUT US

Cronax Industries - India's Leading Manufacturer of Entrance Door Automation, Cleanroom Equipment, & Hygiene Products – Since 2013

Cronax Industries stands as India's premium industrial solutions leader, proudly operating as the parent brand to three specialized divisions: Cronax Automation, Cronax Cleanroom, and Cronax Hygiene. With over a decade of engineering expertise, we have built a strong reputation for delivering innovative products, customized systems, and exceptional customer service across a wide range of industries. Our journey is driven by a vision to redefine industrial efficiency, safety, and hygiene standards through cutting-edge technology and world-class manufac-

Our commitment to excellence is reflected in every solution we provide—whether it's the precision and speed of our Door Automation systems, the reliability and durability of our Cleanroom equipment, or the advanced Hygiene products designed to meet global benchmarks.

HIGH PERFORMANCE DOOR APPLICATION

High Speed Doors for small and large scale Industry

Every industry, regardless of size, requires entrance automation solutions that offer fast, efficient, and durable operations. Products from Cronax Industries are easy to use, designed for long-lasting, trouble-free performance with minimal maintenance. These solutions ensure reliable, continuous, and safe operation, making them ideal for a wide range of industrial applications.

Door Automation for Pharmaceutical Industry

Cronax Industries' High-Speed Doors for the pharmaceutical and chemical sectors ensure optimal hygiene, sealing, and reliability. Designed to minimize exposure time, our custom solutions meet stringent industry standards. We prioritize staff training and dedicated after-sales service for complete compliance and operational excellence.

Door Automation for Food Processing Industry

Cronax Industries partners with leading food production and processing companies, offering High-Speed Doors tailored for hygiene, efficiency, and continuity. With FDA-approved components, our doors meet industry cleanliness standards and support rigorous cleaning protocols, ensuring cost-effective, reliable solutions for food and cold storage sectors.

Door Automation for Warehousing Industry

Cronax Industries enhances logistics centers with durable, high-usage loading station doors designed for efficiency and reliability. We offer preventive maintenance and service contracts to minimize downtime and ensure smooth operations for timely deliveries.

Door Automation for Automobile Industry

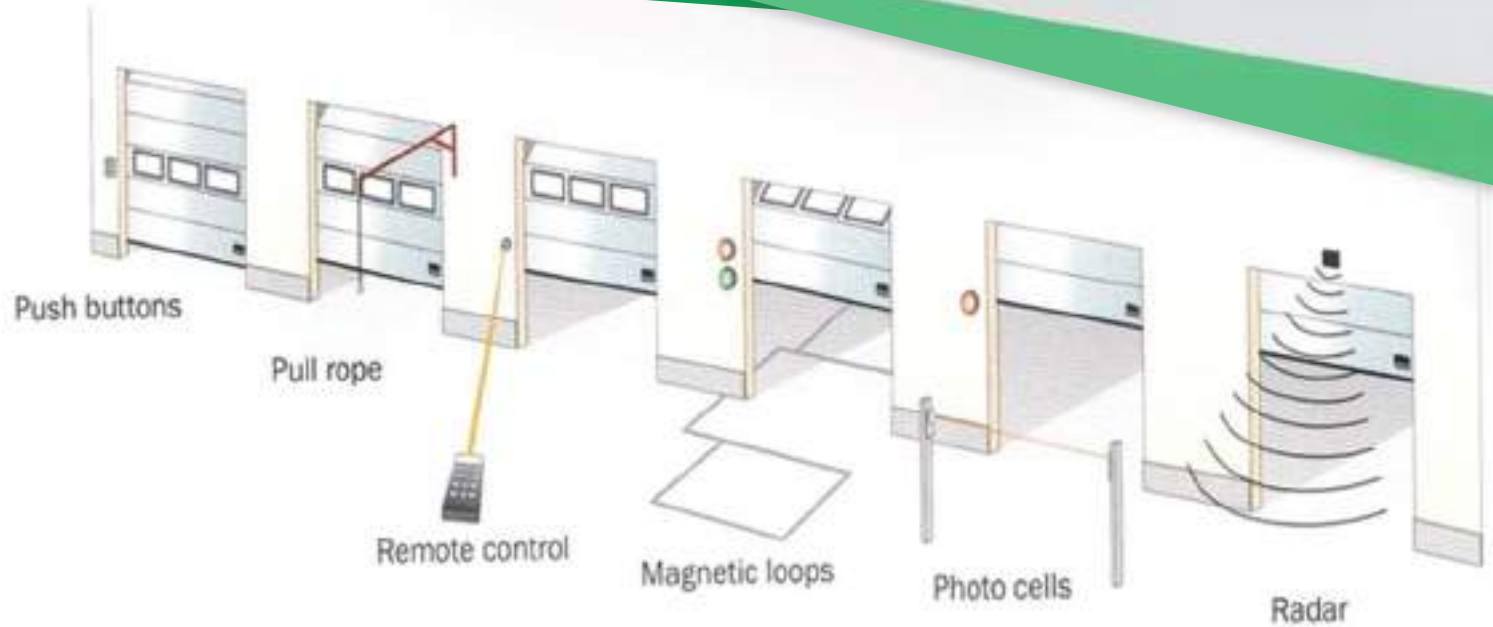
A typical car factory produces around a thousand cars per day, requiring a massive flow of goods within the facility, where timely delivery is critical. This places high demands on the reliability of the doors used in the logistics process. Cronax Industries provides products designed to function seamlessly under these demanding conditions.

Door Automation for Cold Storage Industry

Cronax Industries' High-Speed Freezer Doors ensure efficient operation in both positive and negative temperatures, maintaining optimal control in cold storage environments. Designed for smooth material flow, our advanced doors handle temperature differentials with reliable performance.

CERTIFICATES

HIGH SPEED DOORS



HIGH SPEED DOOR

SERVO SYSTEM

Precision: Achieves accurate position, speed, and torque through closed-loop servo control, avoiding the errors and interference commonly seen with open-loop frequency control. This ensures smooth, consistent door operation without performance degradation over time.

Stability: Features an integrated design with excellent EMI/EMC electromagnetic compatibility. This improves upon traditional PLC + inverter + encoder systems by eliminating complex wiring and reduc- ing electromagnetic interference, while also minimizing wiring and plug-related faults.

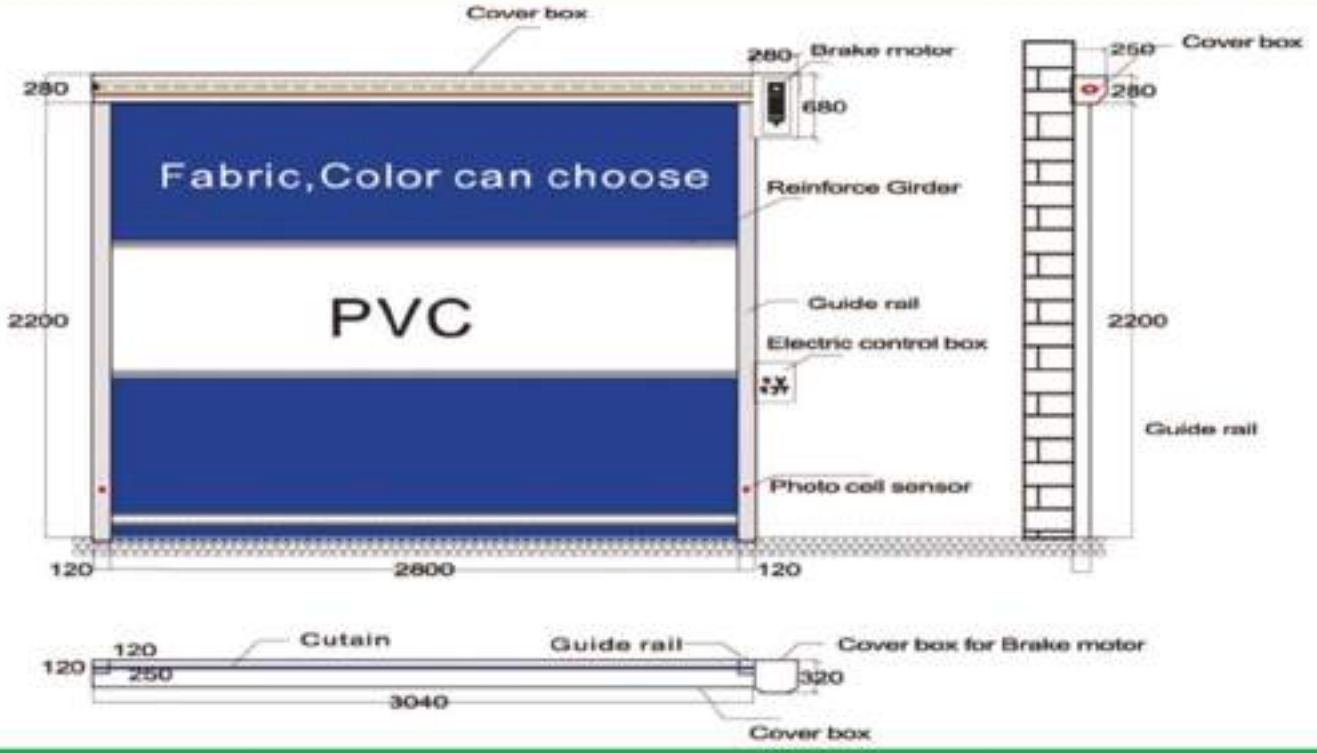
High Speed Motor: The motor operates at a maximum speed of 4000 RPM, with a top operating speed of 1.95 m/s. This high-speed motor ensures greater efficiency and optimal performance. Safety System: In emergency situations, the motor responds within 30 milliseconds. The system is de- signed to ensure that inertia impacts do not exceed a maximum protection level of 5 mm, maintain- ing client safety.

Soft & Flexible Quick Start: Features high-speed acceleration with a flexible, slow stop using S-curve velocity profiles for stepless adjustment. The advanced intelligent constant torque servo system adapts the output torque to match door load changes, ensuring smooth, jitter-free low-speed opera- tion and stable high-speed performance.

Custom Made: The system allows for up to 100 customizable control parameters, enabling engineers to fine-tune each door for optimal performance. It includes a unique parameter memory function that records system status, allowing for quick restoration of settings with a single key in case of a failure.

High Frequency: The system is tested for ultra-fast, continuous operation with 200,000 consecutive cycles, demonstrating its reliability in high-frequency environments.

Energy Saving: The system utilizes permanent magnet synchronous motors, which feature rare earth magnets and offer twice the efficiency of traditional asynchronous induction motors. This results in energy savings, reduced weight, and improved performance with lower temperature and torque over- load.


Cover box
280
Brake motor
280
680
Fabric,Color can choose
Reinforce Girder
PVC
Guide rail
2200
Electric control box
Photo cell sensor
120
2800
120
250
Cover box
280
2200
Guide rail
120
Cutain
Guide rail
Cover box for Brake motor
120
250
320
3040
Cover box

HIGH SPEED ROLL UP DOORS

AUTO RECOVERY RAPID DOORS

FOLD UP/ STACKING DOORS

COLD STORAGE DOORS

CLEAN ROOM DOORS

METALLIC SPIRAL DOOR

Technical Specification

1. Leaf / Curtain Material

- **Roll-Up Doors:**
  Constructed using high-strength PVC fabric (900 gsm) with flexible wind reinforcements; available in multiple color options for visibility and safety.

- **Self-Repairing Doors:**
  Made from flexible, tear-resistant PVC fabric (900 gsm) that automatically re-inserts into side guides after accidental impact.

- **Fold-Up / Stacking Doors:**
  Designed with reinforced PVC panels and horizontal stiffeners for large openings and high wind loads.

- **Insulated Doors:**
  Double-layer PVC or insulated fabric curtains with thermal foam core to maintain temperature integrity in cold storage areas.

2. Structure / Frame Construction

- **Roll-Up & Self-Repairing:**
  Galvanized steel, stainless steel (SS 304/316), or powder-coated structure with smooth edges and sealed joints.

- **Fold-Up / Stacking:**
  Heavy-duty galvanized or stainless-steel framework designed for high stability and wind resistance.

- **Insulated:**
  Thermally broken structure in galvanized or stainless steel, providing high rigidity and reduced thermal transfer.

3. Drive & Motor System

- Equipped with high-performance direct or geared motor drive units, compliant with CE and ISO standards

- Frequency inverter control for smooth acceleration and deceleration (soft start / soft stop).

- Manual override system via crank handle or chain hoist for emergency operation

- Maintenance-free, oil-sealed gear motors rated for continuous operation.

4. Control Panel & Operation

- Microprocessor or PLC-based control system with inverter for precise motion control.
- Protection class: IP65-rated enclosure for dust and moisture resistance.
- Compatible with push button, pull cord, radar sensor, magnetic loop, or remote control operation.
- Integrated safety monitoring, position sensing, and programmable interlocks with BMS / PLC.

5. Sealing System

- Flexible bottom profile with soft edge for floor conformity and safe sealing.
- Side guides fitted with double brush or rubber seals to minimize air leakage and dust ingress.
- Optional insulated curtain and bottom weather seals for cold room or outdoor applications.

6. Performance Features

- Opening Speed: Up to 2.0 m/s (depending on model)
- Closing Speed: Up to 1.0 m/s
- Wind Resistance: Class 2–4 (as per EN 12424)
- Operating Temperature Range: -30°C to +70°C (model dependent)
- Cycle Life: Designed for over 1 million opening and closing cycles
- Insulation (for insulated model): Up to 3.5 W/m²·K thermal resistance

7. Safety Features

- Infrared photo sensors and safety edge detection to prevent entrapment or collision.
- Soft bottom profile for safe impact absorption.
- Emergency stop button provided on the control panel.
- Auto-reverse function when obstruction is detected.
- Self-repairing models automatically reinsert the curtain after accidental dislodgement.

8. Operation & Controls

- Custom-built to project requirements (typically 900–1200 mm for single leaves).
- Available in larger double-leaf or sliding configurations based on room layout and shielding requirements.
- Installed on masonry or modular walls, with precise frame alignment for airtight and radiation-proof sealing.

9. Finishes & Color Options

- Standard structure finishes: Galvanized, powder-coated, or stainless steel (SS 304/316).
- Curtain available in multiple RAL colors (Blue, Yellow, Red, Grey, White, etc.).
- Smooth, easy-to-clean finish suitable for food, pharma, or cleanroom applications.

10. Installation & Mounting

- Installed on masonry, steel, or sandwich panel walls with mechanical fasteners.
- Requires balanced mounting surface for optimal operation.
- Compact design suitable for internal or external applications.
- Optional hood covers for protection in washdown or outdoor areas.

11. Standards & Compliance

- Complies with EN 12424 (Wind Resistance), EN 13241 (Industrial Doors), CE, and ISO standards.
- Components tested for durability, performance, and safety certification.
- Electrical systems conform to IEC and CE guidelines for industrial automation equipment.

12. Options & Accessories

- Radar / motion sensors
- Access card or biometric system
- Traffic light indicators
- UPS / battery backup for emergency operation
- Transparent PVC vision panels

- Interlocking systems for cleanrooms and cold storage.

13. Warranty & Commissioning

- Standard manufacturer warranty: 12 months from date of purchase.

- Commissioning includes:
  Functional and safety verification | Performance speed testing | Limit and sensor calibration | Operator training and documentation handover

CRONAX

OUR VALUABLE CLIENTS

ADITYA BIRLA GROUP
AMRITA HOSPITAL
COSMOS
SNOWMAN
PHILIPS
biofarm
PREMIER FOOD INDUSTRIES LTD
RAVENBHEL Pharmaceuticals (P) Ltd.
Coldrush Logistics
KFC
Nestlé
VARUNA
SUN PHARMA
GMR
SURYA
Lite Bite Foods
IndianOil
Fortis
APOLLO EDUCATION GROUP
DELHI INDIRA GANDHI INTERNATIONAL AIRPORT
MARUTI SUZUKI
BIKANERVALA
METRO GROUP OF HOSPITALS
adani
INDIAN ARMY

MSME
ISO
UL
CE

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